Addendum III Connecticut Wetland Delineation Report

Islander East Pipeline Project New Haven County, Connecticut

Prepared for:

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TABLE OF CONTENTS

1.0	INTRODUCTION	
2.0	WETLAND DELINEATION METHODS	
3.0	WETLAND DELINEATION RESULTS	. 3
3.1	Overview	. 3
3.2	Wetland Descriptions	. 4
-	.2.1 Town of Cheshire	
	.2.2 Town of North Haven	
3	.2.3 Town of North Branford	. 7
4.0	CONCLUSIONS	. 8
5.0	REFERENCES	9
TABL	ES	
	2-1: Summary of Remaining Parcels Requiring Wetland Survey as of November 2002 3-1: Wetland Summary	
ATTA	CHMENTS	
Attach	ment A – ACOE Data Forms and Wetland Field Sketches ment B – Wetland Photos ment C – USGS Topographic Maps	

1.0 INTRODUCTION

The Islander East Pipeline Project involves actions by two separate pipeline companies: Algonquin Gas Transmission Company ("Algonquin") and Islander East Pipeline Company, L.L.C. ("Islander East"). Algonquin proposes to construct a new compressor station and upgrade existing interstate natural gas pipeline facilities located in New Haven County, Connecticut, while Islander East proposes to lease pipeline capacity on facilities owned by Algonquin and construct new interstate natural gas pipeline facilities in Connecticut and New York. The proposed Islander East 24-inch diameter pipeline will extend through the towns of North Haven, East Haven, North Branford, and Branford, Connecticut, continuing south into Long Island Sound, and eventually terminating at delivery points in Brookhaven, New York and Calverton, New York.

As part of the initial environmental assessment process, wetlands located within the Islander East Project and Algonquin construction limits were identified and delineated in May and July of 2001 by Islander East. Wetlands were delineated according to criteria and definitions outlined in the U.S. Army Corps of Engineers (ACOE) Wetlands Delineation Manual (ACOE 1987) and the State of Connecticut Inland Wetlands and Watercourses Regulations. A field report summarizing the identified wetlands along the proposed route was finalized in August 2001. Since then, supplemental wetland delineations have been conducted in areas where access had been previously restricted. Addenda I and II to the Connecticut Wetland Delineation Report (October 2001 and December 2001, respectively) summarize additional wetlands where access had become available or where one area was assessed for a potential route variation. This third addendum to the Connecticut Wetland Delineation Report summarizes the results of additional field work conducted on September 9, October 15 and 29, and November 18, 2002.

2.0 WETLAND DELINEATION METHODS

Parcels investigated for this Addendum report where access was previously restricted include, within the Town of North Haven: NHV-023, NHV-035, NHV-036, and NHV-039; and, within the Town of North Branford: NHV-068, NHV-090, NHV-098.1, NHV-099, NHV-97, NHV-100.1, NHV-124, and NHV-128. Previously delineated Parcel NHV-084 was also reviewed because of a proposed shift of the work space to the opposite side of the ROW. Access roads ML-TAR-5.54 and 5.55 were also investigated for the presence of wetlands.

In addition, several segments within the Algonquin Pipelines Retest Section were investigated for the presence of wetlands. These parcels include RT-009H (Algonquin MP 0.68), RT-010 and RT-011 (Algonquin MP 0.55 and 0.66), RT-083, RT-088 and RT-089 (Algonquin MP 3.74 and 3.79), RT-091 (Algonquin MP 3.85), RT-149 (Algonquin MP 7.5), RT-173 (Algonquin MP 8.02) and C-3-4 (Algonquin MP 10.6).

See Table 2-1 for a list of the remaining parcels requiring field surveys as of November 2002.

Table 2-1: Summary of Remaining Parcels Requiring Wetland Survey as of November 2002						
Approximate Begin Milepost	Crossing Length (feet)	Tract ID				
0.6	20	NHV-021				
1.1	50	NHV-033.1				
1.1	280	NHV-034				
6.0	1,650	NHV-137				
Total	2,000					

Delineation of wetland boundaries encountered along the alignment was conducted using both the Federal Routine Determination Method presented in the ACOE Wetlands Delineation Manual (ACOE 1987) including clarifications and interpretations provided in the March 6, 1992 guidance memorandum (Williams 1992), as well as the Connecticut State delineation criteria. In accordance with state delineation criteria, field identification of Connecticut wetland soil was used for determining wetland boundaries in the State of Connecticut. Criteria for wetland soil in Connecticut include all alluvial, poorly drained, and very poorly drained soils. Historically, there have been regional variations in the application of soil drainage classes in the New England area. Upon the recommendation of the Connecticut Natural Resources Conservation Service (NRCS), a publication entitled *Notes on Criteria Used For Identifying Wet Soils In Connecticut and Rhode Island* (Kolesinskas and Sautter 1990) was used to identify soil drainage classes in Connecticut for this project. This publication describes soil drainage classes and identifies soil morphological features commonly used in the field by Connecticut NRCS staff.

The 1987 ACOE manual and guidance memorandums emphasize a three-parameter approach to wetland boundary determination. This approach involves the identification of: (i) evidence of wetland hydrology; (ii) presence of hydric soils; and (iii) predominance of hydrophytic vegetation as defined by the National Plant List Panel (Reed 1988). Positive indicators of all three parameters are normally present in wetlands and will serve to distinguish between both upland and transitional plant communities. Identified wetlands were classified according to Cowardin et al. (1979).

After a wetland was identified, transects were established perpendicular to the wetland/upland boundary in order to document conditions within each community and firmly establish the wetland boundary. The wetland boundary was then marked with sequentially numbered pink surveyors' flags. These flags were marked with the state abbreviation in which the wetland is located (CT), the wetland crew designation (A), the wetland number (1, 2, 3, etc.), and the state (S), federal (F), or state/federal (X) common boundary. For parcels NHV-035 and NHV-036, flags were marked with the town abbreviation in which the wetland is located (NH for North Haven), the wetland number (1, 2, 3, etc.), and the sequential flag number. Once wetland flags were placed, the location of each flag was pinpointed with the use of a Global Positioning System (GPS) unit or conventional survey methods. These data were stored in the GPS for

subsequent downloading into a Geographic Information System (GIS) and plotting onto project alignment sheets. The vegetation, hydrology, and soils portions of the ACOE Routine Wetland Determination data forms were completed during the property inspection at each data point along each transect.

These data forms along with field sketches of each wetland are provided in Photographs of the wetlands and USGS topographic maps can be found in Attachments B and C, respectively. The results of the delineations are summarized in Section 3.0.

3.0 WETLAND DELINEATION RESULTS

3.1 Overview

No wetlands were observed within parcels RT-009H, NHV-023, NHV-068, and NHV-090 or along the associated access roads. No wetlands were identified within the proposed work areas at parcels RT-010, RT-011, RT-149, and RT-173.

Wetland CT-A57 was identified along the existing Algonquin pipeline between approximate Algonquin MP 3.80 and 3.96 in the Town of Cheshire. This area consists of a forested and shrub wetland.

Wetland CT-A56 was identified along the access road to the Defco meter station C31, located on Parcel C-3-4 at approximate MP 10.6 on the Algonquin pipeline, adjacent to Route 15 in the Town of North Haven. This area includes a large forested and emergent floodplain wetland associated with the Quinnipiac River that extends from the upper access road to the Valve site.

Wetland NH1 was identified within the adjoined parcels NHV-035 and NHV-036 in the Town of North Haven. This wetland resource is classified as forested wetland, with a permanently maintained emergent wetland (wet meadow) along the existing Algonquin pipeline ROW (ROW). The wetland was observed to continue on either side of these parcels, to both the north and south, within a single parcel, NHV-034, which flanks the NHV-035 and 036 parcels. Parcel NHV-034, however, was restricted from access at the time of the September 9, 2002 site visit.

Wetlands CT-A6 and CT-A12 in the Town of North Haven were identified previously in the field on parcels NHV-038 and NHV-040, respectively. These wetlands were extended onto parcel NHV-039, a previously restricted access parcel. These wetland resources are classified as forested wetland, with a permanently maintained emergent wetland (wet meadow) along the existing Algonquin pipeline right-of-way.

Wetlands CT-A58 and CT-A59 were identified along the existing Algonquin pipeline ROW between approximate proposed MP 4.4 and 4.7 in the Town of North Branford. These wetland resources are classified as forested wetland, with a permanently maintained emergent wetland (wet meadow) along the existing Algonquin pipeline right-of-way.

Wetland CT-A55 was identified within parcel NHV-124 and NHV-128 in the Town of North Branford along the proposed Islander East pipeline right-of-way. This resource area is classified

as forested wetland, and borders a stream emanating from the northwest. This stream and associated wetlands border the proposed ROW adjacent to parcel NHV-124, and was identified previously in the field as Wetland CT-A15 on parcels NHV-122, NHV-123 and NHV-125.

Wetlands within parcel NHV-084 at approximate milepost 3.95 in North Branford, previously delineated as Wetland CT-A9 for the initial Connecticut Wetlands Report, was re-inspected due to the proposed shift of the work space to the opposite side of the ROW. The area inspected for the new work space consists of a mowed field. No hydrophytic vegetation, wetland hydrology or hydric soils were identified.

Table 3-1 summarizes the extended and newly identified wetlands. Brief descriptions of the wetlands can be found in Section 3.2.

Table 3-1: Wetland Summary									
Approx. Begin Milepost	Wetland ID No.	Cowardin Classificati on	ACOE Jurisdic- tion	CT Jurisdic- tion/DC ¹	Associated Stream/ Watercourse	PHOTO(S)			
Algonquin 3.80	CT-A57	PFO/SS	Yes	Yes/PD	None	1, 2			
Algonquin 10.6	CT-A56	PFO/PEM	Yes	Yes/PD	Quinnipiac River	3, 4			
1.09	CT-NH1	PFO/PEM	Yes	Yes/PD ²	None	none			
1.3	CT-A6 Extension	PFO/PEM	Yes	Yes/PD	None	5			
1.5	CT-A12 Extension	PFO/PEM	Yes	Yes/PD	None	6			
4.4	CT-A58	PFO/PEM	Yes	Yes/PD	None	7			
4.5	CT-A59	PFO/PEM	Yes	Yes/PD	Unnamed stream	8			
5.50	CT-A55 (A15 Extension)	PFO	Yes	Yes/PD	Unnamed stream	9,10,11,12			

DC = Drainage Class according to Kolesinskas and Sautter, 1990.

3.2 Wetland Descriptions

Information on wetland vegetation, soils and hydrology are presented below for each of the identified wetland areas.

⁽SPD = somewhat poorly drained; PD = poorly drained; VPD = very poorly drained; WD = well drained)

Disturbed soils: may not necessarily fall within any listed criteria.

DC generally assigned, reflective of indicators of seasonal high water.

3.2.1 Town of Cheshire

3.2.1.1 Wetland CT-A57

This wetland is located along the existing Algonquin pipeline ROW at Algonquin MP 3.8. It is immediately southwest of previously delineated Wetland CT-A42. Within the pipeline ROW, the wetland is a shrub swamp, and the surrounding area is forested. The wetland contains woodland sapling, shrub and herbaceous species including American elm (*Ulmus americana*), pin oak (*Quercus palustris*), red maple (*Acer rubrum*), black oak (*Quercus velutina*), tuliptree (*Liriodendron tulipifera*), winterberry (*Ilex verticillata*), willow (*Salix* sp.), blackberry (*Rubus* sp.), multiflora rose (*Rosa multiflora*), joe-pye-weed (*Eupatorium purpureum*), wood fern (*Dryopteris* sp.), goldenrods (*Solidago* spp.), and others. While soils within the wetland are disturbed as a result of previous pipeline construction, the general profile was observed as 7.5YR3/2 fine sandy loam, overlying 7.5YR3/3 fine sandy loam subsoil with significant redoximorphic features (concentrations and depletions). Based on the presence of these significant redox features within the red matrix, in addition to the wetland hydrologic indicators such as drainage patterns, these soils are considered to be hydric. Wetland CT-A57 qualifies as both an ACOE and Connecticut State jurisdictional wetland.

3.2.2 Town of North Haven

3.2.2.1 Wetland CT-A6 Extension

Located approximately 800 feet south of Route 17 along the existing Algonquin ROW is Wetland A6. According to NWI mapping and confirmed by subsequent field investigations, this wetland is classified as a PFO1E with an associated PEM along the existing ROW. For the extension of CT-A6 on Parcel NHV-038, flags labeled CT-A6-101 to 110 were hung in the field. Red maple, green ash (*Fraxinus pennsylvanica*), spicebush, jewelweed, tussock sedge (*Carex stricta*), and red top grass (*Agrostis alba*) are the predominant plant species throughout the wetland. Soils were investigated to a depth of 21 inches revealing a histic epipedon directly above by a depleted matrix. The hydrology of the wetland appears to be driven primarily by groundwater discharge; however, inputs from surface water from the adjacent hillslope may also contribute. Observed hydrologic indicators included inundation, saturation, watermarks, and drainage patterns. Wetland CT-A6 qualifies as both an ACOE and Connecticut State jurisdictional wetland.

3.2.2.2 Wetland CT-A12 Extension

Wetland CT-A12, which is located between Route 17 and Half Mile Road along the existing ROW, is classified as a palustrine, permanently flooded wetland with an unconsolidated bottom. Field investigations also revealed an associated PEM/PFO1 surrounding the ponded area. For the extension of CT-A12 on Parcel NHV-040, flags labeled CT-A12-101 to 111 were hung in the field. Jewelweed and rough-leaf golden-rod (Solidago patula) dominate the herbaceous layer with silky dogwood, spicebush, red maple, and green ash in the shrub and tree layer. Soils were

investigated adjacent to the pond to a depth of 15 inches revealing a silty loam with a matrix color of 5YR3/3 and 15 percent to 25percent high and low chroma mottles in the B horizon. Like some of the above wetlands, Wetland A12 has been altered by fill material from the existing pipeline and the adjacent agricultural field therefore obscuring the field indicators for hydric soils. Furthermore, this soil may have formed in parent materials derived from red Triassic sandstones therefore masking the soil morphologies. Based on field observations, including the existence of a permanently ponded area, this soil is likely flooded for a long duration during the growing season. The hydrology of the wetland appears to be driven primarily by a combination of groundwater discharge and overland surface flows from the adjacent agricultural field. Wetland CT-A12 qualifies as both an ACOE and Connecticut State jurisdictional wetland.

3.2.2.3 Wetland CT-A56

This wetland consists of the Quinnipiac River forested and emergent (wet meadow and shallow marsh) floodplain in the vicinity of the C31 Valve site (Parcel C-3-4) and the Defco meter station, at approximate MP 10.6 on the existing Algonquin pipeline. Wetland flags A56-1 through A56-6 mark the wetland boundary across the access road to the valve site from Highway 15 (Merritt Parkway). The area from this access road to the valve site itself is entirely within wetlands. Since the access road and the area around the valve site is within the existing pipeline ROW, it consists of emergent wetlands containing purple loosestrife (Lythrum salicaria), reed canary-grass (Phalaris arundinacea), smartweed (Polygonum sp.), cattail (Typha latifolia), common reed (Phragmites australis), asters (Aster spp.), goldenrods, willow-herb (Epilobium sp.), and other species. Forested wetlands surrounding the pipeline ROW contain red maple, American elm, red ash (Fraxinus pennsylvanica), spicebush (Lindera benzoin), gray dogwood (Cornus racemosa), jewelweed (Impatiens capensis), and other species in the understory. Soils within the wetlands are deep, silt loam and fine sandy loam with a matrix color of 5YR 4/3 in the upper six inches, followed by 5YR4/2 matrix color with 5YR3/4 redoximorphic features. These soils meet the criteria for poorly drained floodplain soil typical of the Quinnipiac River Valley. The entire floodplain shows obvious wetland hydrologic indicators. Wetland CT-A56 qualifies as both an ACOE and Connecticut State jurisdictional wetland.

3.2.2.4 Wetland CT-NH1

Wetland CT-NH1, within parcels NHV-035 and NHV-036, is located approximately 100 feet south of Highway 17 in North Haven along the existing Algonquin ROW. Based on field observations, this wetland is classified as a PFO wetland on both sides of the Algonquin ROW (including the adjacent, proposed Islander East pipeline right-of-way), and PEM within the existing Algonquin right-of-way. Predominant wetland vegetation includes red maple, American elm, sweet pepperbush (*Clethra alnifolia*), spicebush, cinnamon fern (*Osmunda cinnamomea*), and greenbriar (*Smilax* sp.). Soils were investigated to a depth of 20 inches revealing a fine sandy loam with a matrix color of 7.5YR3/2 (O/A horizons) and 7.5YR4/2 (subsoil) and <5 percent redoximorphic features in the B horizon. Observed hydrologic indicators included drainage patterns. Wetland CT-NH1 qualifies as both an ACOE and Connecticut State jurisdictional wetland.

3.2.3 Town of North Branford

3.2.3.1 CT-A55

Wetland CT-A55 is an extension of previously delineated CT-A15 (described in the Connecticut Wetland Delineation Report, August 2001), located along an unnamed stream along the southwest edge of parcel NHV-124. It consists of a disturbed, narrow, forested area with an abrupt slope along the existing Algonquin 8-inch C-5 pipeline. The stream flows from the northwest within parcel NHV-122 (and other parcels upgradient), crosses the Algonquin pipeline as it enters parcel NHV-124, and continues parallel to the Algonquin pipeline on its southern side. Adjacent to the parcel, the stream appears to have been dug out and formed into a small basin. Further south and east, the stream narrows and continues in a normal channel. The wetland itself is a narrow, forested area along the disturbed/fill bank of the stream containing primarily red maple, Norway maple (Acer platanoides), Speckled alder (Alnus rugosa), multiflora rose (Rosa multiflora), spicebush, silky dogwood (Cornus amomum), and sedges (Carex spp.) in the understory. Soils in the wetland consists of disturbed/filled, gravelly fine sandy loam materials with a matrix color of 7.5YR3/3 (A horizons) overlying a 7.5YR3/2 fine sandy loam subsoil (B horizon) with <5 percent redoximorphic features. Observed hydrologic indicators included drainage patterns indicative of wetlands. Wetland CT-A55 qualifies as both an ACOE and Connecticut State jurisdictional wetland.

3.2.3.2 CT-A58

Wetland CT-A58 is located approximately 250 feet east of Doral Farms Road along the existing Algonquin ROW. Based on field observations, this wetland is classified as a PFO wetland on both sides of the Algonquin ROW (including the adjacent, proposed Islander East pipeline right-of-way), and PEM within the existing Algonquin right-of-way. Predominant wetland vegetation includes common reed and goldenrods within the maintained ROW while ironwood (Carpinus caroliniana), swamp white oakı (Quercus bicolor), spicebush, and red maple dominated the forested portions. Soils were investigated to a depth of 20 inches revealing a fine sandy loam with a matrix color of 5YR4/4 within the first 10 inches and 5YR4/2 in the subsoil. Approximately 5 percent redoximorphic features were scattered throughout. The soils were investigated in a portion of wetland A58 that has been altered by past disturbance associated with construction of the existing pipeline, therefore obscuring the field indicators for hydric soils. Observed hydrologic indicators included saturation in the upper twelve inches and drainage patterns. Wetland CT-A58 qualifies as both an ACOE and Connecticut State jurisdictional wetland.

3.2.3.3 CT-A59

Based on field observations, wetland CT-A59 is classified as a PFO wetland on both sides of the Algonquin right-of-way, and PEM within the existing Algonquin right-of-way. Soft rush (Juncus effusus), lurid sedge (Carex lurida), cattail, bugleweed (Lycopus virginicus), and silky dogwood (Cornus amomum) are the predominant plant species on the existing ROW while

ironwood, swamp white oak, spicebush, and red maple dominated the forested portions. Soils were investigated to a depth of 16 inches (auger refusal due to rocks) revealing a fine sandy loam with a matrix color of 5YR4/3 and 5YR4/4 and approximately 5 percent redoximorphic features throughout. Like many of the wetlands identified along the existing ROW, soils within Wetland A59 have been altered by past disturbance associated with construction of the existing pipeline, therefore obscuring the field indicators for hydric soils. Observed hydrologic indicators included surface saturation and drainage patterns. Wetland CT-A59 qualifies as both an ACOE and Connecticut State jurisdictional wetland.

4.0 CONCLUSIONS

Five wetlands were identified within the Islander East Pipeline Project limits and Algonquin Pipeline Retest Section during the Fall 2002 follow up surveys. These wetlands are in addition to the 54 wetlands previously identified as occurring within or adjacent to the proposed Islander East pipeline ROW and existing Algonquin pipeline right-of-way. In most cases, these wetlands exhibit wetland hydrology, hydric soils, and hydrophytic vegetation as defined in the ACOE Wetlands Delineation Manual, as well as the field soil morphological characteristics for alluvial, poorly, or very poorly drained soils as required under Connecticut State Regulations. Since many of the wetlands occur along the previously disturbed areas, the positive indicators of hydric/wetland soils were sometimes obscured or absent. In these cases, best professional judgment, hydrology, and position on the landscape were considered in the final determination. In all cases the state boundary coincided with the same boundary as the Federal delineation.

The remaining 2,000 feet of the Islander East pipeline route requiring wetland field surveys is shown on the USGS topographic maps included as Attachment C. As access to these restricted areas is gained, additional addendum reports will be released summarizing any newly identified wetland resources.

5.0 REFERENCES

- ACOE. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report U-87-1. Waterways Experiment Station, Vicksburg, MS.
- Cowardin, L.M., V. Carter, F.C. Golet and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish & Wildlife Service, Office of Biological Services. FWS/OBS-79/31. December.
- Kolesinskas, K.J. and Sautter, E.H. 1990. Notes on Criteria Used for Identifying Wet Soils in Connecticut and Rhode Island. USDA Soil Conservation Service, Storrs, Connecticut.
- Reed, P. 1988. National List of Plant Species that Occur in Wetlands. U.S. Fish & Wildlife Service, St. Petersburg, FL.
- Williams, A.E. 1992. Memorandum Subject: Clarification and Interpretation of the 1987 Manual. U.S. Army Corps of Engineers. March 6, 1992

 9	

ATTACHMENT A ACOE DATA FORMS AND FIELD SKETCHES

Islander East NHV-124 A55-1 to 10

I and income s	TRANSECT: /		4.2
PROJECT TITLE:	,	PLOT: W	CT.
DELINEATOR(S): CD, DR	DATE: 10/15/0		1
VEGETATION Stratum and Species (Dominants Only)	Dominance Ratio	Percent Dominance	NWI
Herb	Julya		
Aster diverice tus	10/40	25	UPL
Carex Sp.	10/40	25	OBL
COTHUS SMOHUM	10/40	25	FACW
Carya Ovata	10140	25	FACH
Shrub			
Lindera benzoin	40/120	33	FACUE
Rosa multiflora	20/120	16	
Algus rugosa	60/120	50	=ACU
_	50,120		1
Acer Platanoides	6:	50	UPL
Acer rubrum		50	FAC
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Highly disturbed fill Slope -Plot included upl. Side Portially

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10-16+	B .	7.5YR 3/2	7.5 VR 5/6 c,d & Radox Deplis	FSL, granelly			
			·				
		-					
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		noma	, Redox				
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coffee xinus amen	sus)	10/15	67	FACU
Elaeagnus UN		10/15	67	URL
Quercus velu	tina	5/15	3.3	
Acer Platano		10/60	17 83	UPL
			. ,	
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Color, Abundance, Size & Contrast Snings, restrictive layers, root distribution, soit water, stc. DEPTH 0-12 7.5YR 3/3 Dry Lozmy Fill HYDRIC SOIL INDICATOR(S) REFERENCE: None OPTIONAL SOL DATA: TAXONOMIC SUBGROUP : SOIL DRAINAGE CLASS: DEPTH TO ACTIVE WATER TABLE: NTCHS HYDRIC SOIL CRITERION: CONCLUSIONS Hydric Salte Criterion Met? Wetland Hydrology Met?

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spicebush sweet pepperbush	50/90		FACW.	<u>'</u>			4/2	RD'S	f,f,f			į
Tree		' '										
Red Maple	80/80	100	Fire	1								
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Plants recorded with patentials should be considered as "father inchrephytee" in the sally below. OTE 2: Species with MA or NE status are reported, but are not calculated in the sally below.				·								
OBL FACW FAC OTHER HYDROPHYTES	FAC.	FACU	UPL							<i>*</i>		
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100 x Subtotal Hydrophytes Subtotal Hydrophytes + Subtotal Non-hydrophytes HYDROPHYTES	 1. 		10		HYDRIC SOIL IND	ICATOR(S)	Colave	Diala		ERENCE:		l
HYDROLOGY ! Myderlagy is other the most difficult locator to observe.								, Deple Met	tri X			Í
RECORDEO DATA Stream, late or tidel gage Antel Photograph Glorer Glorer Antel Photograph An			<u> </u>	:	OPTIONAL SOIL DA	ITA:				ERENCES:	·	
Other NO RECORDED DATA OBSERVATIONS:					SOIL DRAINAGE	,	D				•	ľ
Depth to Free Water: Depth to Seturation (including capitary fringe): Describe Aftered Hydrology:					NTCHS HYDRIC S							
own on viscad blackods.					CONCLUSIONS Greater than 50%	Yes Hydrophyles?	No ISTHIS	DATAPOINT WITHIN	N A WETLAND?	× III		
Inundated Saturated Water Marks Drift Lines 12 inches	Sediment Deposits	Orein: Patter	age ms Wetland		Hydric Solls Crite Welland Hydrolog	rion Met?	REMARK	s:		/ \		
OTHER (explain):			***Uditu		Golfo-Shirong topus to		. 			,		ì
		re-frances (THE PERSON NAMED IN		PROJECT TI	TLE;			TRANSECT	:	PLOT:	

wetland NHI

ROJECT TITLE: TR	ANSECT:	PLOT: U	0
ELINEATOR(S): CTD DA	TE 9/9/02	N.	11-7
/EGETATION Stratum and Species (Dominants Only)	- Dominance Ratio	Percent Dominance	NWI STATUS
Vinca	75/10	5-7-1	UPL
Sweet Pepper bush	10/10		PACE
cinn fern	20/109		FACE
should pepperbush spice bush Norway maple	30/65 30/65 5/65	46	FACU
greentrior	5/5	100	FAL
Red 03 K Red Mashe For the Cherry 1 the areas in indicat piece with absorbed in indicate hydroxine in the last piece with a month of a forth hydroxyme in the last piece.	201110 B01110 10/110	73	FAC FAC
Seminar with his and count are reported, but are not assistant in the light below.	FAC- NON-hydrago NT - O	MEU	J UPL
DROCK DGY Semination of the following from the semination of t	To the control of the street, and the street,	-	
Depth to Saturation (including capitlery throps) Describe Allered Hydrology(
in upper 12 inches	dic, on	Parte	

		_			
SOIL	Skelch Landscape			•	•
		PFO	¥		
	•	-WW			
DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES	USDA Texture; and not	des, concretions, messes, pore
			Color, Abundance, Size & Contrast	-	root distribution, soll water, etc.
0-6	A	7.5YR 3/2		FSL	fine mots
6-18		7.5 YR		FSL	
;		[
	1	ļ.	1		
				•	
HYDRIC SOIL INC	DICATOR(\$)	00		ERENCE:	
: ,	2	one			
OPTIONAL SOLD			REF	ERENCES:	
TAXONOMIC SUE	4.	UP			•
	IVE WATER TABLE				
NTCHS HYDRIC					
CONCLUSIONS			_		
Greater than 50%	⊒ Yes	No ISTURO	ATAPOINT WITHIN A WETLAND?	Ö Ö	
Hydric Solls Crite		M WEWNERS		שע ב	
Welland Hydrolo		(X)			
	_	*			
PROJECT TIT	11 C·		TRANSECT:		LOT:
LYMEC! II	LE.		(PONSECT:		201.

CT- A56

DIECT TITLE: TRANSECT:	115/0	PLOT: W.	40.00
GETATION Stretum and Species (Dominants Only)	Dominance Ratio	Percent Dominance	NMI SUTATE
Porto billy S.P.	20/80	25	OBL
Polygonum lapathitolium Impatiens capensis	40/80	50	tocus
Cornus racemosa Lindera banzoin	50/70 20/70	71 29	Facus
Ver othus americana Acer rubrum Fraxinus pensylvanica	10/90 70/90 10/90	78	fecus fec facu
To Cove parader? In submits places with detailed stangering in which between the day bears E.E. Services with M. V. St. stanger and opposed, but any our promoters in the with bears E.E. Services with M. V. St. stanger and opposed, but any our promoters in the with bears E.E. Services with M. V. St. stanger and opposed, but any our promoters in the with bears I.E. Services with M. V. St. stanger and opposed, but any our promoters in the with bears E. Services and M. V. St. stanger and		FACU SURTOTAL OO	
HYDROLOGY Resemple of the real state of the state of th			

SOIL	Sketch Landscape	Position						
		•		en de la companya de La companya de la co				
DEPTH	HORIZON	MATRIX COLOR	RECOXIMORPHIC PEATURES Color, Abundance, Size & Contract	USOA Testure; and resides, concretions, messes, pore finings, restrictive layers, root distribution, soil water, etc.				
o-8		5 Y R 4/3		sandy fill over natural soil				
8-20	A	5 YR 4/2	57R3/4, cd	SIL				
				:				
HYDRIC SOIL INDI	CATOR(S)		REF	ERENCE:				
•.								
TAXONOMIC SUBG			REF	ERENCES:				
SOIL DRAINAGE C		PD		I				
DEPTH TO ACTIV	E WATER TABLE:							
NTCHS HYDRIC SOIL CRITERION:								
Greater than 50%	77		TAPOINT WITHIN A WETLAND?) ž				
Hydric Solis Criterio Welland Hydrology		REMARKS:		,				
PROJECT TITL			TRANSECT:	PLOT:				

CT-A56

JECT TITLE 4	TRANSECT:	110	PLOT: UF	
INEATOR(S):	DATE		4)	102.0
Stratum and Species (Dominants Only)		Dominance Ratio	Percent Dominaçõe	NVII STATUS
Raised gravel From Rt. 15	Road to Prop.			
plantain, etc.	grasses			
One asserted * 'O indicate plants with obtained adoptation to minimum. Plants asserted with contrast expect to minimum before the property of the contrast of the plants of the plants with t				
OR. FACW FAC TOTHER		SAR	PACU CHYM SUSTOTAL DIA 96	UPL
	lgift of the section, minor received per	ation, market particle		
OBSERVATIONS Depth to Free Visite: Depth to Estimation (including capitlery binge) Describe Allered Hydrology:				
		The state of the s	en Dre	

SOIL	Sketch Landscape	Position			,	
	•					
***			•.			
DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATUR		r; and nodules, concretions, masse live layers, root distribution, soil we	
Ro	ui sed	gra	rel Ros	od - F	-111	
	Soil	5		1.		
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1				:]		
1						- 1
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į						- 1
.]						
HYDRIC SOIL INDI			L	REFERENCE:		
HTORIC SOIL INDI	CX (OR(S)	*		NEPENENCE.		
				**	4.	
OPTIONAL SOIL DAT	74			REFERENCES:		
TAXONOMIC SUB						1
SOIL DRAINAGE C	LASS:					
DEPTH TO ACTIV	VE WATER TABLE:					- 1
NTCHS HYDRIC SO	OIL CRITERION:					
CONCLUSIONS	Yes	No		Yes No		
Greater than 50%	Hydrophytes?		ATAPOINT WITHIN A WETLA	NO7 🔲 🔯		- 1
Hydric Solls Criteri	lon Met?	REMARKS	s :			- 1
Welland Hydrology	y Met?	M				1
2-ro-2-4 14-	ca + ;					
PROJECT TITE	LE:		TRANS	ECT:	PLOT:	

AGT Anomaly #6,7

OTHER (explain)

CT-A57 PLOT: WE+ PROJECT TITLE: TRANSECT DELINEATORISH CD, DR DATE: 10/15/02 Percent Dominance NVI Dominance VEGETATION Stratum and Species STATUS onoclea sensibilis Ratio 60140 43 forces. tac-Eupatorium maculatum 20/140 fact 10/140 Dryopteris Spinulosa Ilex verticulata 30/140 feews 20/140 14 Vitis Sp. Rubus occidentalis 30/80 such Rosa multiflora 40180 10/80 face Luc Quercus velutina 20/50 averus Palustris Page COTE 2. Species with NR or HE status are reported, that are not materialized to the tally being Hydrophym sustotal 3. HOHAYORPAN BURTOTAL: 100 x Subsetal Hydrophytes - Subsetal fron-hydrophytes - Hydrophytes - Subsetal fron-hydrophytes - Hydrophytes HYDROLOGY | MECORDED DATA
Stream, lede or libel page
Asinst Photograph
Other
His RECORDED DATA OBSERVATIONS. Depth to first Wilser: Depth to Saturation (including capitary fringe). Describe Allered Hydrology: Drainage Water Marks Dont Cines Inundated Saturated in upper

0-6 A 6-20 B			
0-6 A			
0-6 A			• •
	MATRIX COLOR	REDOXIMORPHIC FEATURES Color, Abundance, Size & Contrast	USDA Texture; and nodules, concretions, messes, pore linings, restrictive layers, root distribution, soit water, etc.
6-20 B	7.5YR 3/2		FSL
1	7.5 XR 3/3	51R 4/6 C,d-B. Redox Depl.	FSL
			Disturbed - In pipeline ROW
			•
HYDRIC SOIL INDICATOR(S)	15 W/T		RENCE:
OPTIONAL SOIL DATA: TAXONOMIC SUBGROUP:	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	REFE	RENCES:
SOIL DRAINAGE CLASS:			
DEPTH TO ACTIVE WATER TAI	BLE:		
NTCHS HYDRIC SOIL CRITERION	t :		
CONCLUSIONS	Yes No		Yes No
Greater than 50% Hydrophytes?		ATAPOINT WITHIN A WETLAND?	` ₽ □
-	REMARKS		<i>/</i> –
Welland Hydrology Met?	7 0	•	
PROJECT TITLE:		TRANSECT	· BLOT:

Anomaly #6,7 (CTA57-1+04) MP 3.79±

the state of the s				
PROJECT TITLE:	TRANSECT:	1	PLOT: UF)
DELINEATOR(S): CD, DR	DATE:	10/15	102	
VEGETATION Stratum and Species		Dominance	Percent	NWI
(Dominants Only)	٠.	Ratio	Dominance	STATUS
			3396	
Solidago altiss	im 3	20/60		
Poly Stichum acr	astichaid	20/60	33%	Facu'-
	0 3 () = 10. 0	160	1690	الدررعا
Spiraea latifolia				Cae-
Toxico den dron red	icaus	10/60	16%	
10,100			. ,	~
		10/55	16 %	
Vitis sp.		10123	2401	0
Rosa Multiflora		20155	170	40CU
Lindava benzoin		2575.5	45%	tacw "
مرتبل المحارب	_	60/ 70	86%	
Querrus velutin		10/70		C
QUEVEUS Palustr	715	IDJ FO	14%	, ,
NOTE 1: Use asterisk * is indicate plants with observed adaptations to waitend h Plants recorded with asterisks should be considered as *other hydrophyl				
OTE 2: Species with NA or NI closus are reported, but are not colouteled in the I	tally below.	1	<u>' </u>	
ORL FACW FAC OTHER		FAC		LIPL .
HYDROP	HYTES	****	1,100	7
Hydrophyles SÚBTOTAL:		NON-trydro	phylos SUBTOTAL:	2
100 x Subtotel Hydrophytes	- PERCENT	. /	100m	
Subtotal Hydrophytes + Subtotal Non-hydrophytes	HYDROPHYTES	<u> </u>	79 19	
HYDROLOGY 1. Individually or other the most difficult be absorved. In the second most distance the value of the absorved in the part of	el el Des cassess, reseal wester and ner reses Dess and tassess.	ation, countred standard		
RECORDED DATA Streem, lake or tidal gage identification:				
Aeriel Photograph Identification: Other Identification:				
LI NO RECORDED DATA		•		}
OBSERVATIONS,	ن ن نسر			
Depth to Free Water: Depth to Saturation (Including capillary fringe):				
Describe Altered Hydrology:				
1				
				- 1

	Sketch Landscape	Queillan.		
SOIL	Smitch Cardocapa	roundi		* ** ***
•				
,				- 24
OEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES Color, Abundance, Size & Contract	USOA Texture; and nodules, concretions, messes, pore finings, restrictive layers, root distribution, soil water, etc.
0-6	A	7.5 YR 3/3		FSL, Stony till slope
6-18	B	7.5YR 4/3	_	FSL, Stony
			•	
	•			
HYDRIC SOIL IND	ICATOR(S)	L	REF	ERENCE:
				₹.
OPTIONAL SOL DA			REF	ERENCES:
TAXONOMIC SUB	GROUP:			
SOIL DRAINAGE	CLASS:		•	•••
DEPTH TO ACT	VE WATER TABLE			
NTCHS HYDRIC S	OIL CRITERION:			
CONCLUSIONS	Yes	. No		Yes No
Greater than 50%	Hydrophytes?	_	MTAPOINT WITHIN A WETLAND?	□ / 38
Hydric Solls Criter	fon Met?	Z REMARKS	1 :	· •
Welland Hydrolog		×		
PROJECT TIT	16.		TRANSECT	: PLOT:

CT- A58

	•		
PROJECT TITLE:	TRANSECT:	PLOT: LUE	E
DELINEATORIS): Hard Duncan	DATE: 11-18-02		
VEGETATION Stratum and Species	Dominance	Percent	NWI
(Dominants Only)	Ratio	Dominance	STATUS
Herbs	dalaa	1	
DI	1. 10/80	88%	MACW
Phrasmites austra	113	0-10	
Phrasmites austra Solidago ruspsa	10/2	88%	1
Solidara rusosa	10/80	1210	
July July July July July July July July			
		1	
		1	
04M4			
OFF POW			1
1.0. 1			i
Jap Honeysuckle, red M	apu,		
Swamp White Oak Downsons			
OTE 1: Use asteriok * to indicate plants with observed adaptations to wetland systemacy. Plants recorded with estariate should be considered as "other hydrophyles" is the	tally below.		
OTE 2: Species with HA or NI status are reported, but are not defoulated in the fally below	·		
<i>)</i>			
OBL FACW FAC OTHER	FAC-	FACU	UPC
HYDROPHYTES			\sim
Hydrophyles SUBTOTAL:	NON-hydrop	hyles SUBTOTAL:	
100 x Subtotal Hydrophytes p	ERCENT .	1000/2	
	YDROPHYTES	1000	
HYDROLOGY 1. Hydrology to other not most difficult leature to observe. 2. Interpretation must associate the validity of the observation, in light of the day. 2. Interpretation of hydrology may require reposted observations over more the	een, tooset waather conditions, s		
AECORDED DATA			-
Streem, lake or tidel gage Identification: Aerial Pholograph Identification:			
Other identification:			
OSSERVATIONS:	4		1
Cepth to Free Water:	···		- 1
Depth to Seturation (including capillary fringe):	tace		
Describe Altered Hydrology:			
		•	
Inundated Saturated Water Marks	Orifi Lines Sedime		
12 inches	Deposit		Wetland
OTHER (explain):			ļ'
			i

SOIL Sketch Landsco	ape Position	
DEPTH HORIZON	MATRIX COLOR REDOXIMORPHIC FEATURES Color, Abundanos, Size & Contrast	USDAT waters; and nodules, concretions, messes, pore finings, recipitive levers, root distribution, soil water, etc.
0-10	syess fyrul	Fine Soundy LOAM
ا0د -10	12 Redox - tiny	[
		*
!		!
	95	FERENCE:
HYDRIC SOIL INDICATOR(S)		w/ redoxy.
OPTIONAL SOIL DATA:	RE	FERENCES:
TAXONOMIC SUBGROUP: SOIL DRAINAGE CLASS:		
DEPTH TO ACTIVE WATER TO	ABLE:	
NTCHS HYDRIC SOIL CRITERIO		
CONCLUSIONS Greater than 50% Hydrophyles? Hydric Solls Criterion Met?	YOU NO IS THIS DATAPOINT WITHIN A WETLAND REMARKS: 1) SALL 1040 CONT	, / D
Wetland Hydrology Met?	ATV TVA	•
PROJECT TITLE:	TRANSEC	

		CT	A58	
1 / / 5	TRANSECT:	8-02	PLOT: UP	MI OUR
EGETATION Stratum fire Species (Dominants Only)	OR	ominance Jelio	Percent Dominance	NWI STATUS
	Haring 1	1970	57%	FAC
Rubus spp.	. /	0/10	14%	
fulchown grasus	-	00/10	290%	UPL
			4	
E i Une seasons " si indicate plates note describe prolegation in sealinch fineways. Photos monotopic delet statulents activated as semiciated as finishe beingshed" in Pri	us, two	FAC-	FACU	UPL.
	(ACENT YDROPHYTES	MOH Aydray	50%	
VORDLOGY Thereign a fact for one plant when it is a second in the fact to th		, ample skyles,	None	
Ceph to Free Water: Ceph to Seturation (reckeding cephlary things) Describe Allered Hydrology				
Saturated Water Marks 12 inches	Ovit Lines	Deposit	Patt	nage ams in Wefland
Oftellit (explain)			-50000	minute.

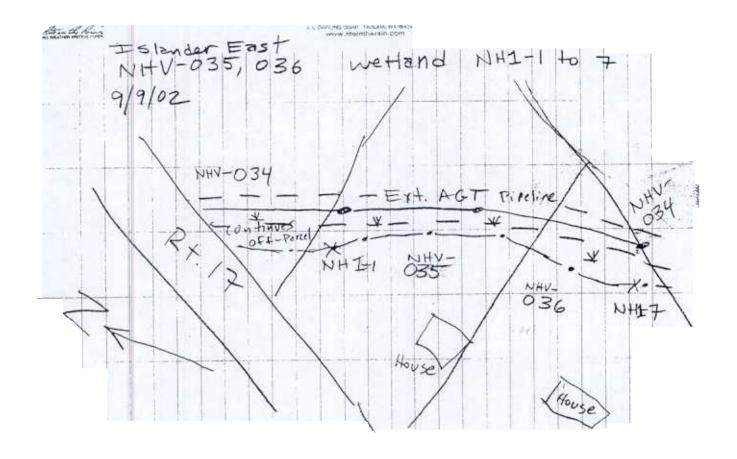
SOIL	Sketch Landscap					
				* 15,2%		
DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES Color, Abundance, Size & Contrast	USDA Texture; and linings, restrictive is:	nodules, concretions, r yers, root distribution, r	masaes, pore soil water, etc.
0-12"	•	5484/3	Faint Mottles C~U" Faint Mottles		sandy	
12"-20"		TYR3/4	Faint Mottles		11	ر ا
:						
:						
					÷ ,	
				-		
HYDRIC SOIL IND	icator(s)		REI	FERENCE:		
OPTIONAL SOIL DA			RE	FERENCES:		
TAXONOMIC SUB						
SOIL DRAINAGE						
NTCHS HYDRIC S						
CONCLUSIONS	ľ			Yes No		
	.] Hydrophyles? [/es No	DATAPOINT WITHIN A WETLAND?			
Hydric Solls Crite	-	Z REMARI		<i>-</i> -		
Welland Hydrolog						
Buthiston over 1		-				
PROJECT TIT			TRANSEC	r:	PLOT: U	0

	(CT-A	159
PROJECT TITLE: TRANSECT		PLOT: WC	Ł
DELINEATORIS): HORD/DUNGUM DATE	1-18-02		
Herbs	Cominance Ratio	Percent Dominance	NWI STATUS
Juneus effusus	30/15	40%	FACWE
Carex lurida	20/15	27%	OBL
Sdidago rugosa	10/15	13%	1
Lycopus spp	10/75	13%	
Shrubs			
Cornus a manum	10/10	100%	FACIO
Other willow, cathail		100	
Participant of account stant to compared as "whe homographs" is the sale below.			
OEL FACE FACE SCHOOL-WITES	FILE	TADU -	UK-
100 s Sustatal Hydrophytes PERCENT		OODD	_
Subsidial Hydrophyses + Subsidial Non-nytrophyses NYDROPHYTES HTDROLOGY 1 1 1 1 1 1 1 1 1		010	
BRECORDED DATA Tomen, Wise or York gape Asset Predograph Deren contribution One contribution			
☐ HO RECOMDED DATA ☐ DRISERVATIONS			
Cepth is Free Water Cepth is Salareson (including capitary Hinge) Selfs / E Centrole Manag Hydratogy	act		
Invariant Saturated Water Marks Orificial Structure 12 contract	Sedimen Deposits	Paner	
OTHER (explain)		phases	100400

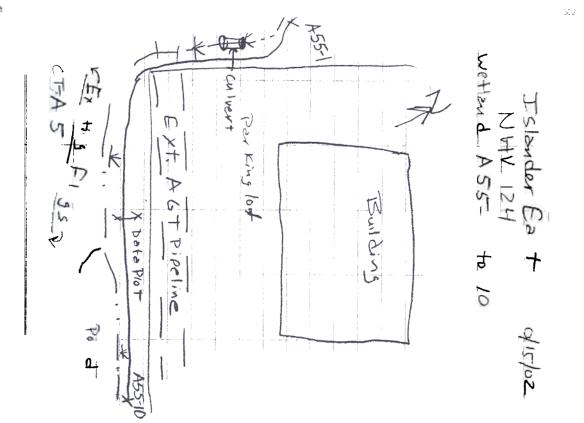
SOIL	Sketch Landecape	Position	4.		•
-	•			eria.	
	400,204	MATRIX COLOR	REDOXIMORPHIC FEATURES	USDA Texture: ar	nd nadules, concretions, messes, pare
DEPTH	HORIZON	MATRIX COLOR	Color, Abundance, Size & Contract	Enings restrictive	levers, root distribution, soil water, stc.
0-8		5464/3	Faint Mottles Throughout	Fine	Sandy loam
8-16	-	5yR4H	11		
Ии	ger (refu	sal C 1	64	
<u>St</u> ~ 6	ream wia	(1 - k			15; shallow
HYDRIC SOIL IND		,		FERENCE:	
Di	sturt	sed;	Ned Son		Redu
OPTIONAL SOR DA			RE	FERENCES:	
SOIL DRAINAGE					
	TVE WATER TABLE	E: -			
NTCHS HYDRIC	SOIL CRITERION:				
Hydric Solls Crite Wetland Hydrolo	6 Hydrophyles? [Z prion Met? [Z gy Met? [Z	He IS THIS	DATAPOINT WITHIN A WETLAND cs;	, Ž Ö	•
PROJECT TI			TRANSEC	T:	PLOT: WEV

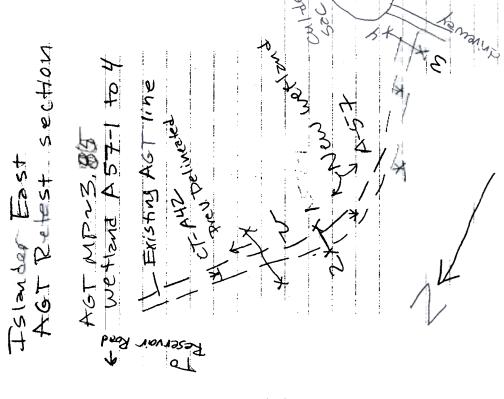
	CT	- A59	
DECT TITLE TRANSECT INCATORISE HAVE DATE I	S work-ne in	PLOT: U	0
SETATION Stream and Species (Dominants Only)	Dominence Ratio	Percent Dominance	NAS STATUS
Solidago canadensis		43%	FACU
Mint spp. Muknown stosses	20/35	29% 57%	UPL
Coinus amomum Elacagnus umbellata	10/20	50%	FAEW
OBL FACW FAC OFFICE OFFICE STATES AND THE STATES AN	FAC- HGIL-lyon	FAEU -	1.
100 x Sublotel Hydrophytes PERCENT HYDROPHYTE HYDROPHYTE		33%	
ROLOGY Intrinsic a dea to the man office base in the state Internation of the state Internation Internation of the state + 12 -	tone	= +- =	
Interdated Septrated Weter Marke Onit of the Control of th	ines Sedim Depos	la Fatt	nage ems in Welland

	SOIL	SOIL Sketch Landscape Position		/			• •		
					. ****	5.			
	DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC F Color, Abundance, Size	& Contrast	USDA Texture; and nodules, concretions, finings, restrictive leyers, root distribution,			
	0-6		5y43/3	_	*	Sandy loan			
	6-12.		5 4R3/4	Faint		()			
	12-20		542344 542344 542244	11		'			
						• .			
		हीं							
					.				
**				·					
				<u> </u>		RENCE:			
	HYDRIC SOIL INC	RCATOR(S)				rence:			
	OPTIONAL SOE OF				REFE	RÉNCES:			
	SOIL DRAINAGE								
	NTCHS HYDRIC S	IVE WATER TABLE	:	ng sa					
	CONCLUSIONS Greater than SON Hydric Soile Crite	.i Hydrophyles?		DATAPOINT WITHIN A	WETLAND?	Yes 140			
	Welland Hydrolog		D						
Į	PROJECT TO			· 'T'	RANSECT:	, PLOT: U.	$\overline{\Sigma}$		



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J.L. DARLING CORP TACOMA, WA 98424-19 i www. RiteintheRain.com Hand the time about about the

10/15/02

Islander East

NET Refest Valve C-31 site "Defto" Wetland A56-1 to 6 A Cost Floor

Seely by A Cost 124

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A 3445 (MINN: A34TA3N-11A

Steep benk to pond

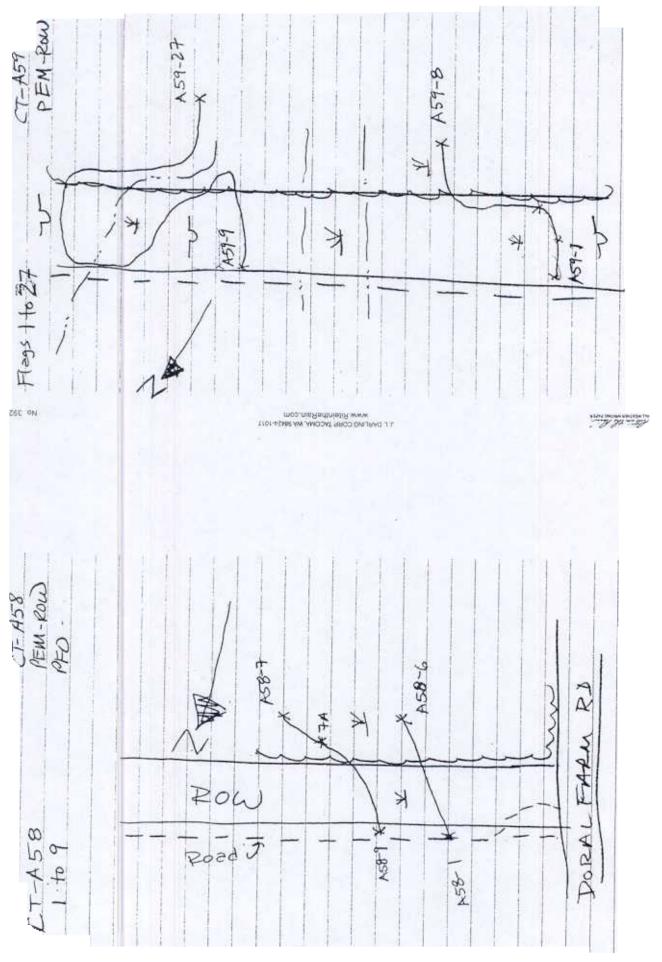
Lease how to pond

A I dense

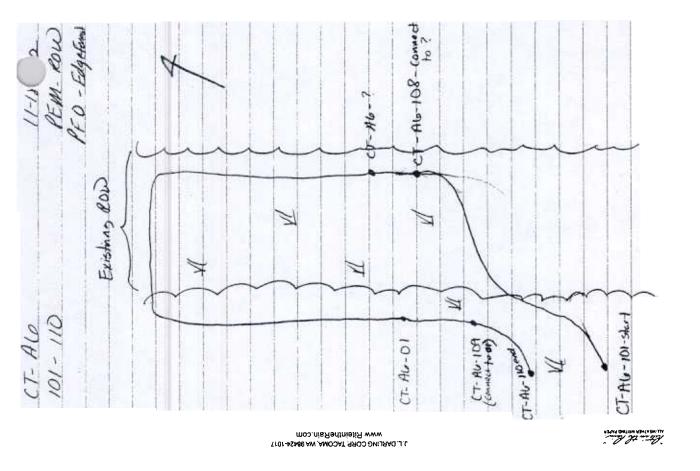
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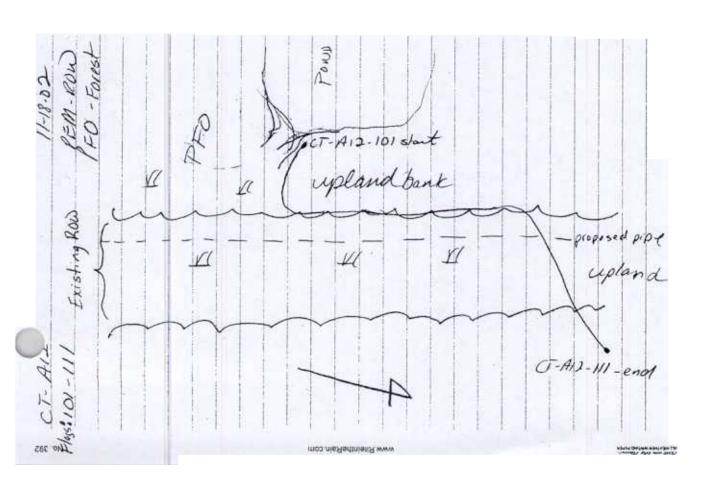
to of a	Swilling	
TO ME MA	Too Too	_
46 Street 14 46 13	Frie 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10,
ponded field	I-DARLING CORP TAKOOAR	these become resulted

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Attachment B and Attachment C of Exhibit F, Ammendum III involve pipeline location information and are not available at this Internet site due to homeland security-related considerations. This portion of the Islander East consistency appeal administrative record may be reviewed at NOAA's Office of General Counsel for Ocean Services, 1305 East-West Highway, Silver Spring, Maryland.